# RE-2X(St)YSWBY(ö)-PiMF/TiMF




## Areas of Use

Used for communication and instrumentation purposes in industries like oil exploration, cement, paper, steel, power generation as well as in intrinsically safe systems in hazardous areas like petrochemical plants and thermal power plants to monitor measuring equipment in process automation applications. Armoured types provide mechanical strength and protect the cable core against outer mechanical effects. Additional oil and hydrocarbon resistance are achieved by its special design.

## Cable Construction

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|---|---|
| **Conductor** | Stranded Annealed Copper (IEC/EN 60228, Class 2) |
| **Insulation** | XLPE (EN 50290-2-29) |
| **Core Colors** | Pair: Black / White, Numbered Triples: Balck / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered |
| **Separator** | PET Foil |
| **Individual Screen** | Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire) |
| **Lay-up** | Shielded pairs / triples / quads are stranded in layers |
| **Separator** | PET Foil |
| **Overall Screen** | Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire) |
| **Inner Sheath** | PVC (EN 50290-2-22) |
| **Armour** | Galvanized Steel Wire Braiding (Min. Diameter 0.30 mm, 75% Coverage) |
| **Outer Sheath** | UV Resisdant, Flame Retardant, Oil and Aliphatic Hydrocarbon Resistant, NBR/PVC, RAL 9005 - Black, RAL 5015 - Blue (other colors upon request) |
| **Reference Standards** | BS/EN 50288-7 |

## Technical Properties

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|---|---|
| **Operating Voltage** | 500 V* |
| **Test Voltage** | Core - Core: 2000 V; Core - Screen: 1000 V |
| **Conductor Resistance** | 0.50 mm² - ≤36 Ω/km; 0.75 mm² - ≤24.5 Ω/km; 1.00 mm² - ≤18.1 Ω/km; 1.30 mm² - ≤14.2 Ω/km; 1.50 mm² - ≤12.1 Ω/km; 2.50 mm² - ≤7.41 Ω/km |
| **Insulation Resistance** | >5000 M.Ωxkm |
| **Capacitance Unbalance (800 Hz)** | ≤500 pF/500m |
| **Capacitance (@800Hz)** | ≤115 nF/km (Capacitance values may increase by 20% up to 4 pairs) |
| **L/R Ratio** | 0.50 mm²..1.00 mm² - ≤25 µH/Ω; 1.30 mm²..1.50 mm² - ≤40 µH/Ω; 2.50 mm² - ≤60 µH/Ω |
| **Temperature Range** | Fixed: -30 °C.....+90 °C, Flexible: -5 °C .....+60 °C |
| **Flame Retardancy** | IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C) |
| **Oil Resistance** | IEC/EN 60811-404 ASTM No 2 oil 90 °C 168 hours (7x24) |
| **Aliphatic Hydrocarbon Resistant** | NF M 87-202 |
| **Min. Bending Radius (Fixed)** | 10 x Cable Diameter |

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